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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,339	11/04/2003	Gultekin Erdem	CH-8006/LeA 36,004	4934
34947 LANXESS CO	7590 03/06/2007 ORPORATION		EXAMINER	
111 RIDC PARK WEST DRIVE			MANOHARAN, VIRGINIA	
PITTSBURGH	I, PA 15275-1112		ART UNIT PAPER NUMBER	
			1764	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/701,339	ERDEM ET AL.	\
Office Action Summary	Examiner	Art Unit	
	Virginia Manoharan	1764	<u> </u>
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	h the correspondence address	S
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC. R 1.136(a). In no event, however, may a replication will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	ATION. Dly be timely filed HS from the mailing date of this commun. NDONED (35 U.S.C. § 133).	
Status	·		
1) Responsive to communication(s) filed on 2	<u>0 December 2006</u> .		
	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal matte	rs, prosecution as to the mer	its is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims	•		· ,
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application	nn -		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-9</u> is/are rejected.		•	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	nd/or election requirement.		
Application Papers			
9) ☐ The specification is objected to by the Exam	ninor	•	
10) The drawing(s) filed on is/are: a)	•	v the Evaminer	
Applicant may not request that any objection to	• •	•	
Replacement drawing sheet(s) including the cor		•	121(d)
11) The oath or declaration is objected to by the	,	•	• •
Priority under 35 U.S.C. § 119	•		
12) ☐ Acknowledgment is made of a claim for fore	eign priority under 35 H S C &	110(a)_(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	sign priority under 35 0.5.C. §	1 19(a)-(u) 01 (1).	
1. Certified copies of the priority docum	ents have been received		
2. Certified copies of the priority docum		nlication No	
3. Copies of the certified copies of the	•	• • ——	e
application from the International But		ooonoa m uno matonal otag	
* See the attached detailed Office action for a	, , , , , , , , , , , , , , , , , , , ,	eceived.	
	•		
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Su	immary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		/Mail Date	
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Inf 6) Other:	ormal Patent Application	
.h	-/	-	

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DETAILED ACTION

The indication of allowability set forth in the previous Office action is withdrawn and prosecution is reopened in view of the following new ground of rejection.

Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The recitation at page 1-2, such as "Of particular interest here is a separation technique comprising extractive rectification" appears to be important to applicants' invention, but is not recited in the independent claim 1, such that the scope of enablement is not commensurate with the scope of the claimed invention.

Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- a). It is unclear from claim 1 what unit of operation is used for the separation as recited e.g., in the preamble, and in steps (ii) and (iii) of claim 1.
- b) The recitation in claim 1 of "(i) the mixture is as an extracting agent contacted with a phosphoric ester of the general formula (1) as an extracting agent" provides for ambiguity and confusion because it would presupposed from the above recitation that the mixture and the phosphoric ester are both extracting agents?

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c). In claim 1, lines 8 and 9, the claimed "a mixture of different phosphoric esters (1) of formula" is ambiguous. It is unclear whether the "of formula" refers to formula of different phosphoric ester"? Emphasis added.

- d). It is also unclear whether the formula 11 refers to formula of "a phosphine oxide of the general formula (11)" as recited in claim 1, line 9, or the formula for "a mixture of different phosphine oxides of formula 11" as recited in claim 1, lines 14-15. See also the claimed "or a mixture of said phosphoric esters of formula (1) as in section (i), line 15 as opposed to "a phosphoric ester of the general formula (1)" claimed in claim 1, lines 3 and 4. [The former recitation, refers to a mixture as opposed to a singular ester recited in the latter].
- e). The process/method claims are indefinite since they fail to set forth the active, actual physical process/method steps, i.e., the used of past tense and passive voice make for confusion and ambiguity. Reciting the claims in active voice (as in the original claims) obviates this rejection.
- f). Claim 1, as recited, is in improper Markush language. ---Wherein R is A, B or C---and Wherein R is selected from a group consisting of would both constitute proper Markush languages.

Claims 1-9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Virginia Manoharan whose telephone number is 571-272-1450.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola, can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MARINGA MANGHAHAN PAMAKA YRAMIRT

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